

AEROSPACE SYSTEMS CHANGE CONTROL within Systems Engineering

Objective:
-to ensure that "in-use" documentation is current, reflects the physical system, and that changes occur only via an approval process

LMS-CP-5510
Revision: B-3

Approval _____ Original signed on file
Associate Director for Research and Technology Competencies

Technical Team

START

Identify and categorize the need for a change (see Note 1)

Pre-approved change?

No

Analyze to determine the potential solution(s), impact(s) and appropriate procedure entry point (see Note 2)

Determine recommendations

Refer to activity's Configuration Management Plan (CMP) to select, complete and submit the Configuration Change Request (see Note 3)

Configuration Manager

Following activity's CMP apply or confirm that a unique identifier exists on the CCR for tracking purposes and distribute to the designated reviewers (see Note 3)

Designated Reviewers

Review impact and feasibility to determine if the recommendations will be submitted to the change control body (see Note 4)

Submit?

No

Either return the CCR to the technical team or forward to the change control body with a recommendation to reject (see Note 4)

General Information

The following records are generated by this procedure and should be maintained in accordance with CID 1440.7:
Configuration Change Request

General Note

This procedure applies to design, development, test, integration, deployment, and operation of deliverable or deployable aerospace systems, including items to be used in aeronautic or space flight and their ground support or flight critical test equipment.

Formal change control of design, design-related documents (e.g., requirements document), drawings, software and hardware does not begin until they are "baselined"

Definition

Baseline: A specification or product that has been reviewed, agreed upon, and that thereafter serves as the basis for further development and can be changed only through change control procedures.

For control of program or project level documents, see LMS-CP-1904, Program Office Change Control. For control of facilities, see LMS-CP-4710, Configuration Management for Facilities.

Other related procedures and policies:

- LMS-CP-5529 Software Configuration Management Planning for Low-, High-, and Critical-Control Software
- LAPG 5300.1 Space Product Assurance
- LAPG 7910.16 Aviation Operations and Safety Manual

Note 1

The following are categories of change:
-Planned/routine change, no design change
-Change as a result of a nonconformance resolution
-Improvement/enhancement
-Requirements change

Note 2

The potential solutions dictate the appropriate procedure to use and the entry point for preparing recommendations for submission to the Configuration Manager. Solutions may dictate one or more of the following procedures to control the change activity:

- LMS-CP-5502, Systems Engineering Requirements Definition & Implementation Planning for Research Projects/Experiments
- LMS-CP-5504, Aerospace Systems Design within Systems Engineering
- LMS-CP-5506, Aerospace Systems Implementation, Testing and Integration within Systems Engineering
- LMS-CP-5528, Software Planning, Development, Acquisition, Maintenance, and Operations

Note 3

The Configuration Management Plan for the project/activity specifies the form of the Configuration Change Request (CCR). Each submittal includes pertinent redlined drawings, test results, and analysis to support the recommendation(s).

For designation of roles, form of the Configuration Change Request (CCR), configuration item identification and method of red lining, refer to the Configuration Management Plan for the project or activity.

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